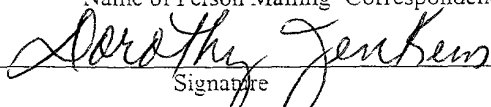
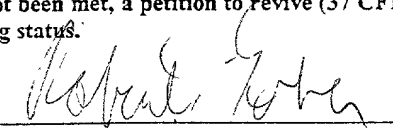


FORM PTO-1390 (REV 10-2000)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER P/2432-38	
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <div style="font-size: 24pt; font-weight: bold;">09/763312</div>	
INTERNATIONAL APPLICATION NO. PCT/SE99/01354		INTERNATIONAL FILING DATE 9 August 1999		PRIORITY DATE CLAIMED 19 August 1998	
TITLE OF INVENTION TRANSPORTABLE APPARATUS FOR TREATING MENIERE'S DISEASE					
APPLICANT(S) FOR DO/EO/US Daniel ENGVALL and Anders NILSSON					
<p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:</p> <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)). 4. <input type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (PCT Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input checked="" type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). <p>Items 11 to 16 below concern document(s) or information included:</p> <ol style="list-style-type: none"> 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. EXPRESS MAIL CERTIFICATE 14. <input type="checkbox"/> A substitute specification. 15. <input type="checkbox"/> A change of power of attorney and/or address letter. 16. <input checked="" type="checkbox"/> Other items or information: 3 sheets of drawings. 					
<p>I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addresses (mail label EL613112996US in an envelope addressed to: Asst. Commissioner for Patents, Washington, D.C. 20231, on <u>February 20, 2001</u></p>					
<p><u>Dorothy Jenkins</u> Name of Person Mailing Correspondence</p> <p> Signature</p> <p><u>February 20, 2001</u> Date of Signature</p>					

FILED FEB 20 2001

U.S. APPLICATION NO. 097/763312 INTERNATIONAL APPLICATION NO. PCT/SE99/01354		ATTORNEY'S DOCKET NUMBER P/2432-38	
17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) : Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$1000.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$860.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$710.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$690.00 International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$100.00 ENTER APPROPRIATE BASIC FEE AMOUNT =		CALCULATIONS PTO USE ONLY \$ 1000.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	8 - 20 =	0	X \$18.00
Independent claims	1 - 3 =	0	X \$80.00
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$270.00	\$
TOTAL OF ABOVE CALCULATIONS =		\$ 1000.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		\$ 500.00	
SUBTOTAL =		\$	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).		\$	
TOTAL NATIONAL FEE =		\$ 500.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		\$	
TOTAL FEES ENCLOSED =		\$ 500.00	
		Amount to be refunded:	\$
		charged:	\$
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>500.</u> to cover the above fees is enclosed. Check No. 3438 b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>15-0700</u> . A duplicate copy of this sheet is enclosed.			
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.			
SEND ALL CORRESPONDENCE TO: OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas New York, NY 10036-8403 Tel: (212) 382 0700			
		 SIGNATURE: Robert C. Faber NAME 24,322 REGISTRATION NUMBER	

P/2432-38

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

New York, New York

Daniel ENGVALL et al

Date: February 20, 2001

Serial No.:

Group Art Unit:

Filed:

Examiner:

For: TRANSPORTABLE APPARATUS FOR TREATING MÉNIÈRE'S DISEASE

Asst. Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to examination, please amend the application as follows:

IN THE CLAIMS:

Please amend claims 4-8 as follows.

Claim 4, line 1, change "any of claims 1-3" to --claim 1--.

Claim 5, line 1, change "any of claims 1-3" to --claim 1--.

Claim 6, line 1, change "any of claims 1-5" to --claim 1--.

Claim 7, line 1, change "any of claims 1-6" to --claim 1--.

Claim 8, line 1, change "any of claims 1-7" to --claim 1--.

REMARKS

This Preliminary Amendment is submitted to change the multiple dependent claims to single dependent claims in order to eliminate the improper multiple dependent claims and to reduce the government filing fee.

EXPRESS MAIL CERTIFICATE

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee (mail label #EL613112996US) in an envelope addressed to: Asst. Commissioner for Patents, Washington, D.C. 20231, on February 20, 2001:

Dorothy Jenkins

Name of Person Mailing Correspondence

Dorothy Jenkins

Signature

February 20, 2001

Date of Signature

Respectfully submitted,

Robert C. Faber

Robert C. Faber

Registration No.: 24,322

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New York, New York 10036-8403

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TRANSPORTABLE APPARATUS FOR TREATING MÉNIÈRE'S DISEASE

FIELD OF THE INVENTION

5

The present invention relates to a transportable apparatus for treating Ménière's disease and similar conditions which affect the pressure balance between the various compartments of the internal ear.

10

BACKGROUND OF THE INVENTION

Ménière's disease can be treated by affecting the pressure in the internal ear, in particular the endolymphatic system.

15 A number of apparatus for carrying out this treatment are known in the art. The comprise a pressure generating/control unit to which a flexible tube provided with an ear plug is coupled for conducting pressure pulses to a patient's external ear.

20

WO 83/02556 discloses an apparatus for influencing the hydrodynamic system of the inner of an ear comprising a displaceable diaphragm forming the wall of an air pressure generating chamber, the diaphragm being reciprocally

25 displaceable by means of a crank coupling in a direction away from the chamber against the force of a spring coil.

WO 93/08775 discloses an air pressure generator for the treatment of Ménière's disease by pressure pulses generated
30 by a flexible membrane forming a wall in a pressure generating chamber, the membrane being displaced by actuation means rigidly coupled to the shaft of an electrical motor.

35 WO 97/23178 discloses a device for affecting the hydrodynamic system of the inner ear comprising first means

for generating a static pressure level and second means for causing a variation of that level in accordance with a predetermined program controlled by a control unit. Each of the first and second means comprise a flexible membrane.

- 5 Also in this known apparatus one half of the reciprocating movement of the diaphragm, the one in which the diaphragm moves towards the pressure generating chamber, is caused by spring means.
- 10 The design of these apparatus is silent about the patient's need for ambulant treatment. To allow the patient to live a life as normal as possible and, in particular, to travel, it should be possible to administer the treatment wherever the patient happens to be. Since such administration implies
- 15 that that it would have to be carried out in the absence of competent health care personnel self-administration should be possible. A transportable apparatus for personal use should also be of a design protecting its delicate parts and the flexible tube/earplug from damage and dirt, and its
- 20 maneuver organs from inadvertent manipulation.

OBJECTS OF THE INVENTION

- It is an object of the present invention to provide an
- 25 apparatus for treatment of Ménière's disease and similar conditions by affecting the pressure in the internal ear which is easy to transport by the patient to be used whenever there is a need for treatment, and which takes into account and solves the aforementioned design problems.

30

It is another object of the invention to provide such an apparatus which, in addition, can be operated by the patient without assistance by others.

SUMMARY OF THE INVENTION

According to the present invention is provided an apparatus of the aforementioned kind, comprising electronically
5 controlled pressure variation means housed in an inner casing, the inner casing being partially enclosed by an outer casing provided with an opening covered by a removable cover, a storage compartment disposed between the casings, a flexible tube connected to said pressure variation means at
10 its one end and being provided with an ear plug at its other end, the flexible tube being disposable in the storage compartment and removable therefrom with its free end carrying the ear plug for administration of pressure pulses to the external ear of a patient. This solves an important
15 problem since the flexible tube has to be about half a meter long at minimum to allow its ear plug to be fixed to the patient's external ear. If not stored and protected properly it would have a tendency to intertwine and fasten with the ear plug in other gear. This tube length is required for
20 convenient self treatment during which the patient sits at a table while the apparatus rests on the table before him or her.

According to a preferred aspect of the invention the storage
25 compartment surrounds a first portion of the inner casing; preferably the flexible tube is disposed in a coiled manner around that portion. This design provides additional shielding for the most sensitive elements of the apparatus while providing for easy deposition of the tube after a
30 treatment session.

According to a second preferred aspect of the invention the first portion of the inner casing is removable from a second portion of the inner casing. Preferably the second portion

of the inner casing and the outer casing are made from one piece of material. By removing the first portion of the inner casing the electronics and the mechanical parts of the apparatus become accessible for adjustment or repair by a technician without having to disassemble the apparatus. Electronic and mechanical elements of a delicate nature can be disposed in a way that makes them face the first portion. Thereby they are optimally protected by being mounted in the innermost part of the apparatus while remaining easily accessible from outside for repair and testing.

Also preferred is to make the flexible tube pass through an opening in the first portion of the inner casing.

According to a third preferred aspect of the invention the first portion of the inner casing is provided with a panel for control of the apparatus by the patient. Thereby an inadvertent start or other manipulation of the apparatus' maneuver organs is prevented.

20

To protect the patient from damage the apparatus of the invention is confined to working pressures not exceeding 30 cm of water column. This is achieved by providing the apparatus with a pressure sensor and to program the microprocessor to open a safety valve once the maximum tolerable pressure is reached.

Advantageously the apparatus of the invention comprises a rechargeable battery in a battery compartment and an electrical connector for connection to a battery eliminator. The battery compartment is advantageously disposed in a way to make it accessible from the rear (bottom) side of the apparatus, that is, the side on which the apparatus stands when in use.

Further preferred features of the present invention are disclosed in the appended claims and a preferred embodiment illustrated in a rough drawing, in which is shown in

- 5 Fig. 1 the apparatus of the invention, in a side view from above, with the casing cover in an open position, and with the flexible tube in a stored (coiled) condition;
- 10 Fig. 2 the apparatus of Fig. 1 and in the same view, with the flexible tube provided with an earplug in an uncoiled position ready for connection to the external ear of a patient;
- 15 Fig. 3 the apparatus of Fig. 1, in a vertical section along its largest diameter, without the flexible tube and with the cover in a closed position.

The apparatus of the invention shown in Figs. 1-3 comprises

20 an inner casing 1 of having about the form of an ellipsoid delimited by two bases perpendicular to its the axis of symmetry and thus parallel to each other. One end portion of the inner casing 1 is surrounded by the wall of an outer casing 2 which is also ellipsoid in form and shares the axis

25 of symmetry casing 1. The ellipsoid wall of the outer casing 2 is spaced apart from the inner casing 1 to which it is joined by a bottom flange 3 forming the peripheral part of what would be its one basis. Thereby an annular space or groove 6 of elliptic form is formed. Any other suitable

30 form of the apparatus, such as a circular form, would be equally possible.

The other (topside) basis of outer casing 2 is lacking. Instead the outer casing 2 is provided with an elliptical

flat cover 4 fastened by a hinge 14 to let it be opened and closed. For most of its circumference, except for a portion in the proximity of the hinge 14, the cover 4 is provided with a rim 15 which overlaps a the outer casing 2 wall when
5 the cover 4 is in a closed position in which it can be releaseably secured to the outer casing 2 (not shown). A simple snap lock (not shown) holds the cover 4 in the closed position; it is moulded into appropriate superimposed (when closed) portions of the inside of rim 15 and the
10 outside of the outer casing 2 wall.

The inner casing 1 contains a pressure generating unit 7 for generating the variations in air pressure to be adduced to the external ear of a patient and, from there, to the
15 patient's internal ear through a tiny tube implanted in the tympanic membrane. The pressure generating unit 7 may comprise a diaphragm pump operated by electrically driven actuating means, such as the assembly disclosed in WO 97/23178. It is only indicated in a general way in Fig. 3.
20 The pressurized air outlet of the pressure generating unit 7 has the form of a nipple 10 suitable for attaching one end of a flexible plastic tube 11 the other end of which carries an earplug 13 to be inserted into one of the the patient's external ears.

25

The flexible tube 11 extends through a circular opening 8 into the elliptical circumferential groove 6 in which it can be wound up when the apparatus of the invention is not being used. This condition is shown in Fig. 1. The free end 12 of
30 the flexible tube 11 normally carries an earplug 13 which has been omitted in Fig. 1 for reasons of clarity. Though being substantially thicker than the flexible tube 11 the earplug 13 can also be stored in the elliptical groove 6 by

a design making the groove to widen at a portion 9 of the inner casing 1 wall deviating in the direction of the axis of symmetry of the ellipsoid; the opening 8 is arranged in this wall portion 9.

5

Fig. 2 shows the apparatus of the invention ready for use. The flexible tube 11 is unwound and disposed for most of its length outside of the apparatus of the invention.

- 10 The apparatus in Figs. 1-3 is intended to be put on a horizontal support with its flat underside, the basis pertaining to the portion of the inner casing 1 extending exteriorly of the outer casing 2.
- 15 In addition the inner casing 1 houses an only schematically illustrated electronic control unit 17 including a microprocessor for controlling the generation of the pressure pulses in the pressure generating unit 7. Energy for several treatments can be stored in rechargeable
- 20 batteries 23 disposed in a separate battery compartment 24 accessible from the underside of the apparatus by removing the compartment lock 25. Miniature contacts accessible from outside for recharging the batteries 23 through a battery eliminator are not shown in the Figures; the same is true
- 25 for other electrically operated equipment known in the art, such as a valve for equalizing air pressure in the pressure generating unit 7 and a safety valve.

The top wall 5 of the inner casing 1 is provided with a

30 panel 18 for operation of the apparatus by the patient. The panel 18 comprises an on/off touch switch 19 and four diode lights 20 indicating, to the patient: whether the apparatus is pumping or not; the completion of a treatment session;

[illegible][illegible][illegible]

C l a i m s

1. A transportable apparatus for treating Ménière's disease and similar conditions affecting the pressure balance between the various compartments of the internal ear, comprising electronically controlled pressure variation means housed in an inner casing, the inner casing being partially enclosed by an outer casing provided with an opening covered by a removable cover, a storage compartment disposed between the casings, a flexible tube connected to said pressure variation means at its one end and being provided with an ear plug at its other end, the flexible tube being disposable in the storage compartment and removable therefrom with its free end carrying the ear plug for administration of pressure pulses to the external ear of a patient, said storage compartment surrounding a first portion of the inner casing around which the flexible tube is disposable in a coiled manner.
2. The apparatus of claim 1, wherein said first portion is removable from a second portion of the inner casing.
3. The apparatus of claim 2, wherein said second portion of the inner casing and the outer casing are made from one piece of material.
4. The apparatus of any of claims 1-3, wherein said first portion of the inner casing is provided with a panel for control of the apparatus by the patient.
5. The apparatus of any of claims 1-3, wherein the flexible tube passes through an opening in said first portion of the inner casing.

6. The apparatus of any of claims 1-5, wherein the pressure pulses do not exceed 30 cm of water column.
- 5 7. The apparatus of any of claims 1-6, comprising a rechargeable battery in a battery compartment and an electrical connector for connection to a battery eliminator.
8. The apparatus of any of claims 1-7, wherein said
10 removable cover is hinged to said outer casing.

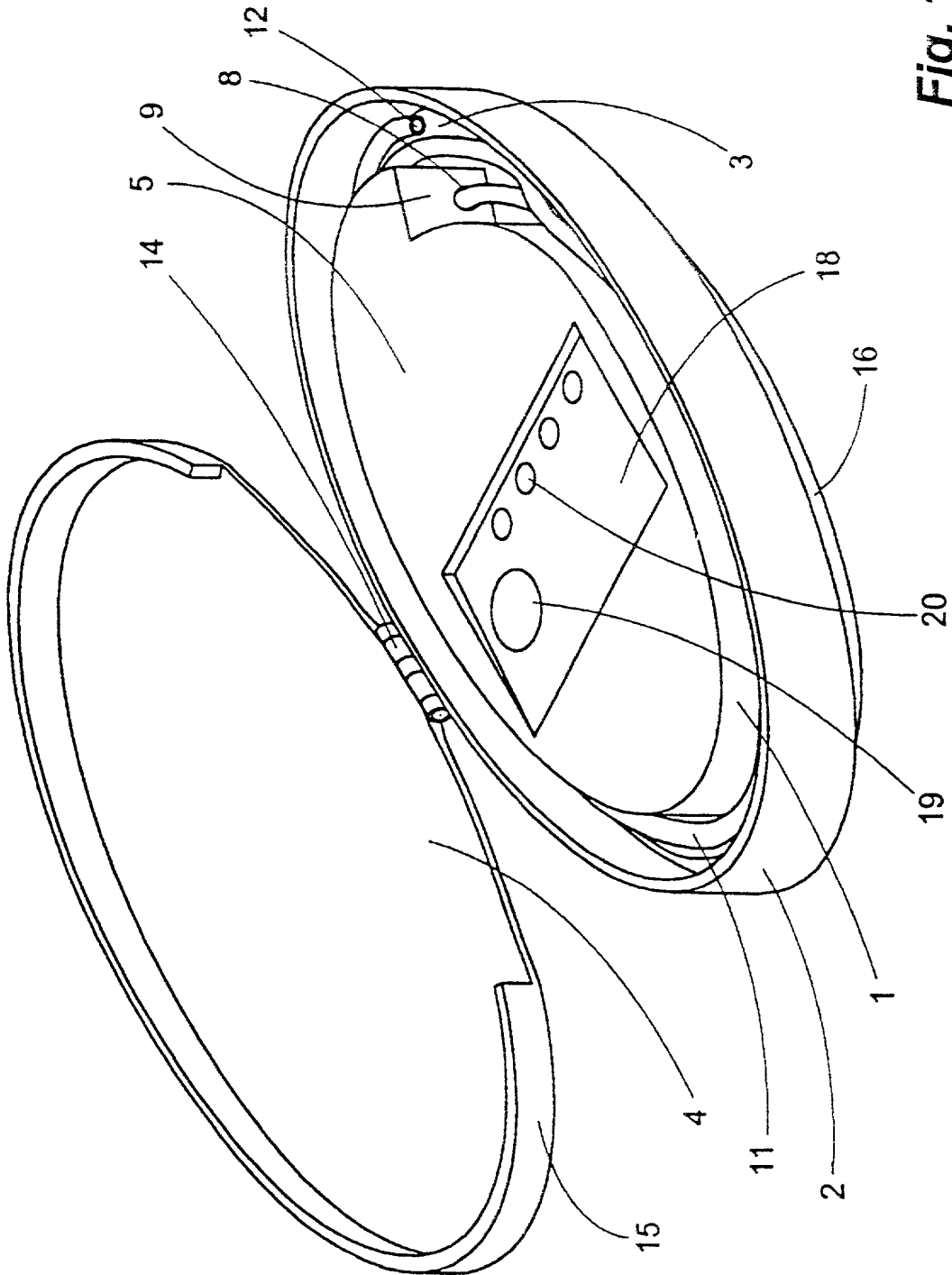


Fig. 1

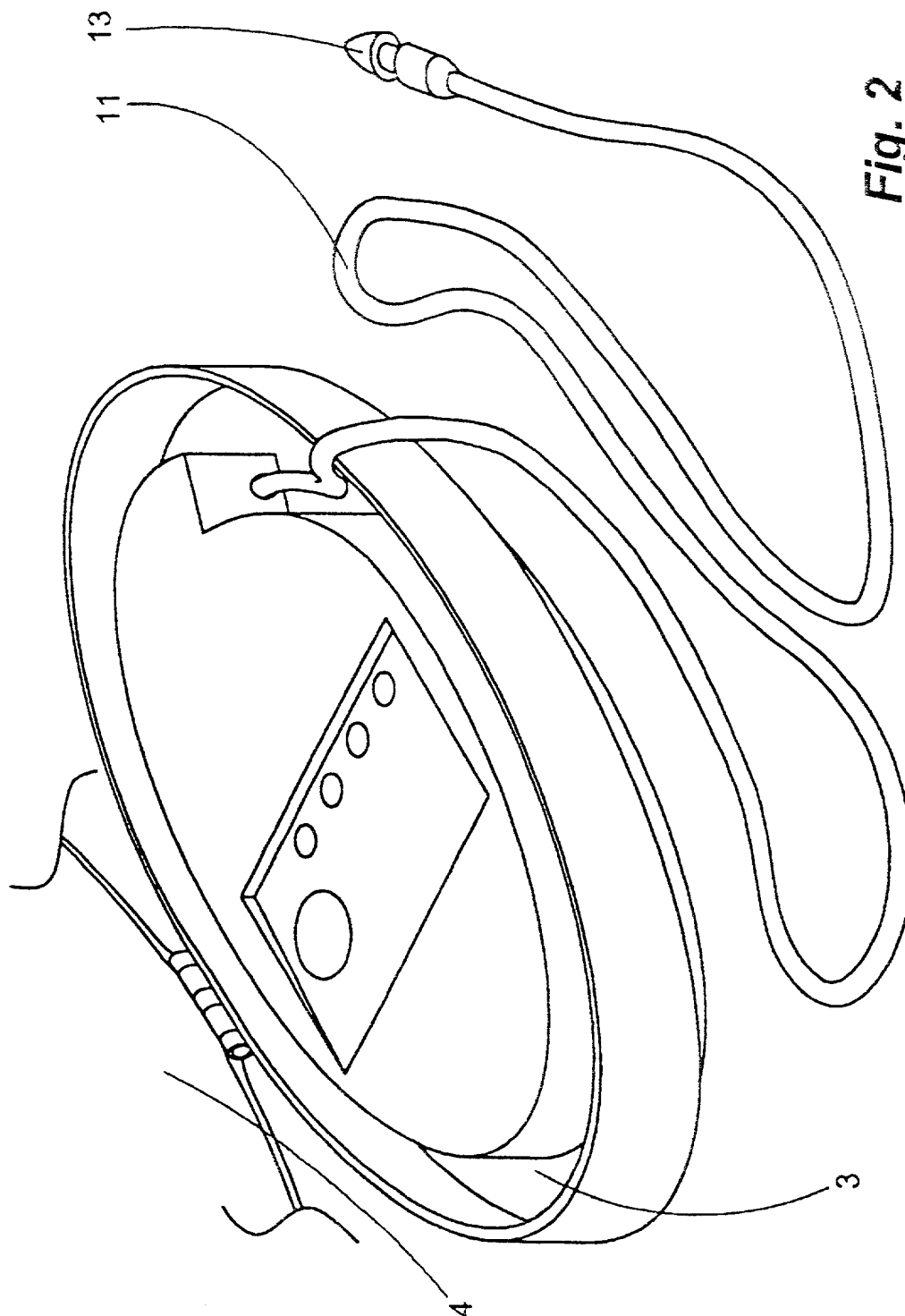


Fig. 2

Publ. No. 2000/045400

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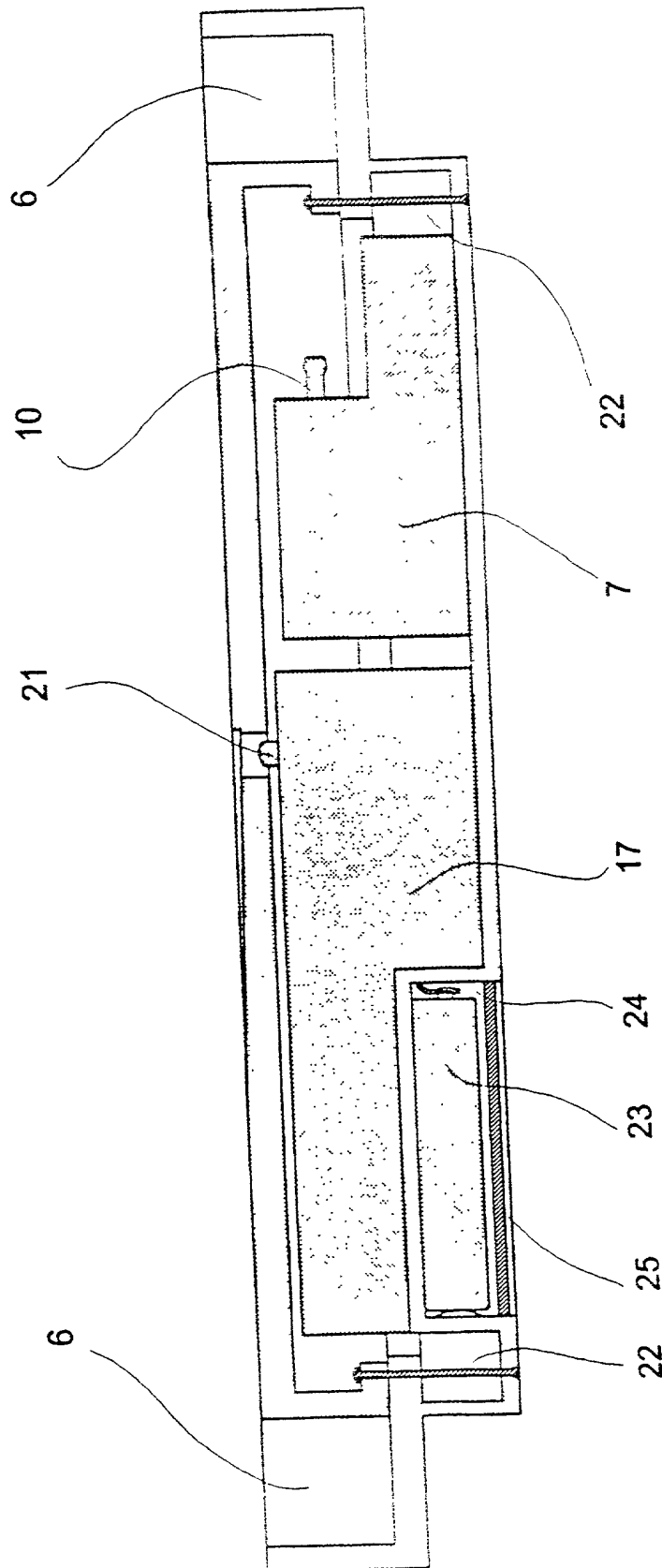


Fig. 3

INVENTOR INFORMATION

09/763312

JC02 Rec'd PCT/PTO 2 0 FEB 2001

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CORRESPONDENCE INFORMATION

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APPLICATION INFORMATION

Title Line One:: Transportable Apparatus For Treating Men
Title Line Two:: iere's Disease
Total Drawing Sheets:: 3
Formal Drawings?: Yes
Application Type:: Utility
Docket Number:: P/2432-38
Secrecy Order in Parent Appl.?: No

PRIOR FOREIGN APPLICATIONS

Foreign Application One:: 9802771-7
Filing Date:: 08-19-1998
Country:: Sweden
Priority Claimed:: Yes

Source:: PrintEFS Version 1.0.1

09/763312

23/04/01
04/23/0122:20
14/03CONIMOR AB, HUDDINGE, SWEDEN - 212 382 0888
FAX 212 382 1255
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0003/003

UNITED STATES OF AMERICA			OFCS FILE NO.
COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION			
As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named) of the subject matter which is claimed and for which a patent is sought on the invention entitled: TRANSPORTABLE APPARATUS FOR TREATING MENIERE'S DISEASE			
The specification of which is attached hereto, unless the following box is checked: <input checked="" type="checkbox"/> was filed on <u>August 9, 1999</u> as United States patent Application Number or PCT International patent application number <u>PCT/SE99/01354</u> and was amended on _____ (if any).			
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose all information known to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56. I hereby claim priority benefits under Title 35, United States Code §119 of any foreign application(s) for patent or inventor's certificate or United States provisional application(s) listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed: Prior Foreign or Provisional Application(s)			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. 119
Sweden	9802771-7	19 August 1998	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
			YES <input type="checkbox"/> NO <input type="checkbox"/>
			YES <input type="checkbox"/> NO <input type="checkbox"/>
I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.			
UNITED STATES APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)	
I hereby appoint customer no. 2332 OSTROLENK, FABER, GERB & SOFFEN, LLP, and the members of the firm, Samuel H. Weimer - Reg. No. 18,310; Jerome M. Berliner - Reg. No. 18,633; Robert C. Faber - Reg. No. 24,322; Edward A. Melman - Reg. No. 26,735; Stanley H. Lieberstein - Reg. No. 22,400; Steven I. Weissburg - Reg. No. 27,409; Max Moskowitz - Reg. No. 30,576; Stephen A. Soffen - Reg. No. 31,063; James A. Finder - Reg. No. 30,173; William O. Gray, III - Reg. No. 30,944; Louis C. Dymnich - Reg. No. 30,625 and Douglas A. Miro - Reg. No. 31,643, as attorneys with full power of substitution and revocation to prosecute this application, to transact all business in the Patent & Trademark Office connected therewith and to receive all correspondence.			
SEND CORRESPONDENCE TO:		OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 AVENUE OF THE AMERICAS NEW YORK, NEW YORK 10036-8403 CUSTOMER NO. 2332	DIRECT TELEPHONE CALLS TO: (212) 382-0700
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.			
FULL NAME OF SOLE OR FIRST INVENTOR Daniel ENGVAL		INVENTOR'S SIGNATURE <i>Daniel Engvall</i>	DATE 2001-03-28
RESIDENCE (City and either State or Foreign Country) Halmstad, Sweden		COUNTRY OF CITIZENSHIP Sweden	
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FULL NAME OF SECOND JOINT INVENTOR (IF ANY) Anders NILSSON		INVENTOR'S SIGNATURE <i>Anders Nilsson</i>	DATE 2001-02-28
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FULL NAME OF THIRD JOINT INVENTOR (IF ANY)		INVENTOR'S SIGNATURE	DATE
RESIDENCE (City and either State or Foreign Country)		COUNTRY OF CITIZENSHIP	
POST OFFICE ADDRESS			

☐ CONTINUED ON PAGE 2